

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: CUNNINGHAM POND	Lake Area (ha):	8.78
Town: WARNER	Maximum depth (m):	---
County: Merrimack	Mean depth (m):	---
River Basin: Merrimack	Volume (m ³):	---
Latitude: 43°14'45" N	Relative depth:	---
Longitude: 71°51'00" W	Shore configuration:	---
Elevation (ft): 950	Areal water load (m/yr):	---
Shore length (m): ---	Flushing rate (yr ⁻¹):	---
Watershed area (ha): ---	P retention coeff.:	---
% watershed ponded: ---	Lake type:	natural

BIOLOGICAL:

9 July 1989

DOM. PHYTOPLANKTON (% TOTAL) #1		NO SAMPLE COLLECTED
#2		
#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL) #1		NO SAMPLE COLLECTED
#2		
#3		
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)		
BACTERIA (fecal col., #/100 ml) #1		
#2		
#3		

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):
Hypolimnion volume (m³): None

CHEMICAL:

Lake: CUNNINGHAM POND

Town: WARNER

9 July 1989

DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY (μ mhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1989

D.O. S.D. PLANT CHL TOTAL CLASS

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COMMENTS:

Cunningham Pond is a natural body of water over 10 acres in surface area. It is therefore a state-owned public water body (a Great Pond). However, all the land around the pond is privately owned by one individual and access to the pond is not available to the general public.

At the time of our visit, we put a canoe onto the pond and essentially completed the aquatic plant survey before being discovered by the owner and asked to leave. No water samples were collected. The rooted plants were very abundant with Nymphaea across the entire surface of the pond. Most of the pond was 5 feet or less in depth, with a small area in front of an old beaver dam perhaps approaching 10 feet. A beaver lodge was observed in the pond.

Cunningham Pond was classified as a private pond for the purposes of the assessment of significant lakes for the 305(b) report.